

## PATENT COOPERATION TREATY

PCT

## NOTIFICATION OF ELECTION

(PCT Rule 61.2)

From the INTERNATIONAL BUREAU

To:

Commissioner  
 US Department of Commerce  
 United States Patent and Trademark  
 Office, PCT  
 2011 South Clark Place Room  
 CP2/5C24  
 Arlington, VA 22202  
 ETATS-UNIS D'AMERIQUE  
 in its capacity as elected Office

|   |   |
|---|---|
| <b>Date of mailing</b> (day/month/year)<br>13 December 2001 (13.12.01)        |   |
| <b>International application No.</b><br>PCT/SE01/00894                        | <b>Applicant's or agent's file reference</b><br>P1520-100A        |
| <b>International filing date</b> (day/month/year)<br>26 April 2001 (26.04.01) | <b>Priority date</b> (day/month/year)<br>28 April 2000 (28.04.00) |
| <b>Applicant</b><br>OLSSON, Håkan   |   |

1. The designated Office is hereby notified of its election made:

☒ in the demand filed with the International Preliminary Examining Authority on:  
 20 November 2001 (20.11.01)

☐ in a notice effecting later election filed with the International Bureau on:

2. The election ☒ was  
☐ was not

made before the expiration of 19 months from the priority date or, where Rule 32 applies, within the time limit under Rule 32.2(b).

|  |   |
|--|---|
| <b>The International Bureau of WIPO</b><br>34, chemin des Colombettes<br>1211 Geneva 20, Switzerland<br>Facsimile No.: (41-22) 740.14.35 | <b>Authorized officer</b><br>Odile ALIU<br>Telephone No.: (41-22) 338.83.38 |
|--|---|

REVISED VERSION

(19) World Intellectual Property Organization  
International Bureau



(43) International Publication Date  
8 November 2001 (08.11.2001)

PCT

(10) International Publication Number  
**WO 01/83132 A1**

(51) International Patent Classification<sup>7</sup>: **B21J 5/12**, 1/04  
// B21K 1/76, H01M 4/04

(21) International Application Number: PCT/SE01/00894

(22) International Filing Date: 26 April 2001 (26.04.2001)

(25) Filing Language: Swedish

(26) Publication Language: English

(30) Priority Data:  
0001559-4 28 April 2000 (28.04.2000) SE  
0004554-2 11 December 2000 (11.12.2000) SE  
0100106-4 12 January 2001 (12.01.2001) SE

(71) Applicant (for all designated States except US): **MORPHIC TECHNOLOGIES AKTIEBOLAG** [SE/SE];  
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(72) Inventor; and

(75) Inventor/Applicant (for US only): **OLSSON, Håkan**  
[SE/SE]; Skogsbärsvägen 4, S-691 45 Karlskoga (SE).

(74) Agents: **HYNELL, Magnus** et al.; Hynell Patenttjänst  
AB, Patron Carls väg 2, S-683 40 Hagfors/Uddeholm (SE).

(81) Designated States (*national*): AE, AG, AL, AM, AT, AT (utility model), AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, CZ (utility model), DE, DE (utility model), DK, DK (utility model), DM, DZ, EE, EE (utility model), ES, FI, FI (utility model), GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SK (utility model), SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW.

(84) Designated States (*regional*): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).

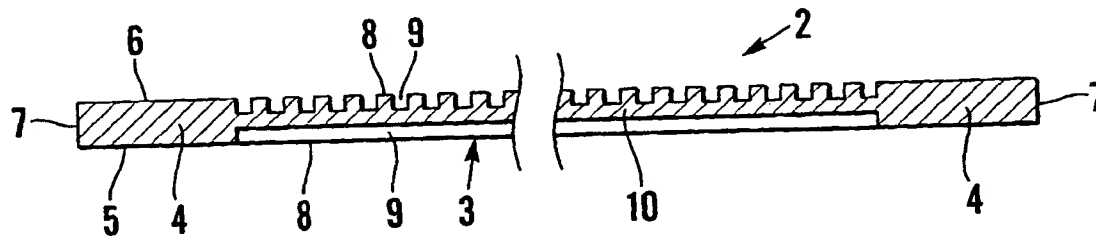
**Published:**

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

(88) Date of publication of the revised international search report:  
28 February 2002

[Continued on next page]

(54) Title: METHOD FOR MANUFACTURING OF A PLATE INVOLVING AN INTERMEDIATE PREFORMING AND A FINAL SHAPING



**(57) Abstract:** The invention relates to a method for the manufacturing of a plate (2) of metal or of a ceramic material, the plate comprising one or more fields (3) which occupy the major part of the surface of the plate and which on at least one side of the plate is high relief patterned, more specifically patterned such that the plate on said at least one side within the area of said field or fields has reliefs with high projections and deep valleys (9) or recesses (8) alternatingly, and between the sides a thin web (10), said high relief patterned field or fields being at least partly bordered by broad edge portions (4) which have a thickness larger than the mean thickness of the plate within the region of said high relief patterned field or fields. In a preparatory step an intermediate product (1) is manufactured, comprising at least a first portion (11) which shall form said high relief patterned field(s), which however is/are not yet high relief patterned but contain(s) an adequate quantity of material. Then this intermediate product is placed between two engraved moulding tool parts (30, 31), which are stricken against one another therein that an impact member with sufficiently high kinetic energy is stricken against at least one of the moulding tool parts for the material to flow out and fill the mould cavity between the tool parts.

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**(15) Information about Correction:**

see PCT Gazette No. 09/2002 of 28 February 2002, Section  
II

*For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*

## INTERNATIONAL SEARCH REPORT

Intern. application No.

PCT/SE 01/00894

## A. CLASSIFICATION OF SUBJECT MATTER

IPC7: B21J 5/12, B21J 1/04 // B21K 1/76, H01M 4/04

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC7: B21J, B21K, H01M

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

SE,DK,FI,NO classes as above

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

| Category* | Citation of document, with indication, where appropriate, of the relevant passages  | Relevant to claim No. |
|-----------|---|-----------------------|
| A         | SU 1579620 A1 (I.P. KALINOVSKII), 23 July 1990<br>(23.07.90), figures 1,2,3<br>--   | 1-23                  |
| A         | WPI/Derwent's abstract, No1991-162645, week 199122,<br>ABSTRACT OF SU, 1579620 A (KALINOVSKII I P),<br>23 July 1990 (23.07.99).<br>-- | 1-23                  |
| A         | DE 19755028 A1 (FLAMM, FRIEDER), 24 June 1999<br>(24.06.99), abstract<br>--   | 1-23                  |
| A         | US 5729883 A (HIDEO YOSHIOKA ET AL), 24 March 1998<br>(24.03.98), figure 1, abstract<br>--  | 1-23                  |

☒ Further documents are listed in the continuation of Box C. ☒ See patent family annex.

\* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance: the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance: the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&amp;" document member of the same patent family

Date of the actual completion of the international search

17 October 2001

Name and mailing address of the ISA/  
Swedish Patent Office  
Box 5055, S-102 42 STOCKHOLM  
Facsimile No. +46 8 666 02 86

Date of mailing of the international search report

07 -01- 2002

Authorized officer

Ola Engstrand/MP  
Telephone No. +46 8 782 25 00

## INTERNATIONAL SEARCH REPORT

International application No.

PCT/SE 01/00894

## C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

| Category* | Citation of document, with indication, where appropriate, of the relevant passages                          | Relevant to claim No. |
|-----------|---|-----------------------|
| A         | GB 2077634 A (GOTTFRIED HAGEN AG),<br>23 December 1981 (23.12.81), figure 1,<br>abstract<br><br>--<br>----- | 1-23                  |

**INTERNATIONAL SEARCH REPORT**  
Information on patent family members

02/07/01

International application No.

PCT/SE 01/00894

| Patent document<br>cited in search report |          |    | Publication<br>date | Patent family<br>member(s) | Publication<br>date |
|---|----------|----|---------------------|----------------------------|---------------------|
| SU  | 1579620  | A1 | 23/07/90            | NONE                       |                     |
| DE  | 19755028 | A1 | 24/06/99            | NONE                       |                     |
| US  | 5729883  | A  | 24/03/98            | JP 7227639 A               | 29/08/95            |
| GB  | 2077634  | A  | 23/12/81            | NONE                       |                     |

# PATENT COOPERATION TREATY

## PCT

### INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

|  |  |   |
|--|--|---|
| Applicant's or agent's file reference<br><b>P1520-100A</b> | <b>FOR FURTHER ACTION</b>  | see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below. |
| International application No.<br><b>PCT/SE 01/00894</b>    | International filing date (day/month/year)<br><b>26 April 2001</b> | (Earliest) Priority Date (day/month/year)<br><b>28 April 2000</b>   |
| Applicant<br><b>MORPHIC TECHNOLOGIES AKTIEBOLAG et al</b>  |  |   |

This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This international search report consists of a total of 3 sheets.

☒ It is also accompanied by a copy of each prior art document cited in this report.

**1. Basis of the report**

a. With regard to the language, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ the international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

b. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international search was carried out on the basis of the sequence listing:

☐ contained in the international application in written form.

☐ filed together with the international application in computer readable form.

☐ furnished subsequently to this Authority in written form.

☐ furnished subsequently to this Authority in computer readable form.

☐ the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.

☐ the statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.

2. ☐ Certain claims were found unsearchable (See Box I).

3. ☐ Unity of invention is lacking (See Box II).

4. With regard to the title,

☐ the text is approved as submitted by the applicant.

☒ the text has been established by this Authority to read as follows:

Method for manufacturing of a plate involving an intermediate preforming and a final shaping

5. With regard to the abstract,

☒ the text is approved as submitted by the applicant.

☐ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. The figure of the drawings to be published with the abstract is Figure No. 6

☒ as suggested by the applicant.

☐ because the applicant failed to suggest a figure.

☐ because this figure better characterizes the invention.

☐ None of the figures.

# INTERNATIONAL SEARCH REPORT

1

International application No.

PCT/SE 01/00894

## A. CLASSIFICATION OF SUBJECT MATTER

IPC7: B21J 5/12, B21J 1/024 // B21K 1/76, H01M 4/04  
According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC7: B21J, B21K, H01M

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

SE,DK,FI,NO classes as above

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

| Category | Citation of document, with indication, where appropriate, of the relevant passages  | Relevant to claim No. |
|----------|---|-----------------------|
| A        | SU 1579620 A1 (I.P. KALINOVSKII), 23 July 1990<br>(23.07.90), figures 1,2,3<br>--   | 1-23                  |
| A        | WPI/Derwent's abstract, No1991-162645, week 199122,<br>ABSTRACT OF SU, 1579620 A (KALINOVSKII I P),<br>23 July 1990 (23.07.99).<br>-- | 1-23                  |
| A        | DE 19755028 A1 (FLAMM, FRIEDER), 24 June 1999<br>(24.06.99), abstract<br>--   | 1-23                  |
| A        | US 5729883 A (HIDEO YOSHIOKA ET AL), 24 March 1998<br>(24.03.98), figure 1, abstract<br>--  | 1-23                  |

☒ Further documents are listed in the continuation of Box C.

☒ See patent family annex.

\* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

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"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance: the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance: the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

Date of the actual completion of the international search

13 July 2001

Date of mailing of the international search report

18-07-2001

Name and mailing address of the ISA/  
Swedish Patent Office  
Box 5055, S-102 42 STOCKHOLM  
Facsimile No. +46 8 666 02 86

Authorized officer

01a Engstrand/MP  
Telephone No. +46 8 782 25 00



## INTERNATIONAL SEARCH REPORT

International application No.

PCT/SE 01/00894

C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

| Category* | Citation of document, with indication, where appropriate, of the relevant passages                          | Relevant to claim No. |
|-----------|---|-----------------------|
| A         | GB 2077634 A (GOTTFRIED HAGEN AG),<br>23 December 1981 (23.12.81), figure 1,<br>abstract<br><br>--<br>----- | 1-23                  |

**INTERNATIONAL SEARCH REPORT**  
Information on patent family members

International application No.

02/07/01

PCT/SE 01/00894

| Patent document<br>cited in search report |          |    | Publication<br>date | Patent family<br>member(s) | Publication<br>date |
|---|----------|----|---------------------|----------------------------|---------------------|
| SU  | 1579620  | A1 | 23/07/90            | NONE                       |                     |
| DE  | 19755028 | A1 | 24/06/99            | NONE                       |                     |
| US  | 5729883  | A  | 24/03/98            | JP 7227639 A               | 29/08/95            |
| GB  | 2077634  | A  | 23/12/81            | NONE                       |                     |

REC'D 26 MAR 2002

WIPO PCT

## PCT

## INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

|   |   |  |
|---|---|--|
| Applicant's or agent's file reference<br>P1520-100A   | <b>FOR FURTHER ACTION</b> See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416) |  |
| International application No.<br>PCT/SE01/00894   | International filing date (day/month/year)<br>26.04.2001  | Priority date (day/month/year)<br>28.04.2000 |
| International Patent Classification (IPC) or national classification and IPC <sub>7</sub><br>B21J 5/12, B21J 1/04 // B21K 1/76, H01M 4/04 |   |  |
| Applicant<br>MORPHIC TECHNOLOGIES AKTIEBOLAG et al  |   |  |

1. This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.
2. This REPORT consists of a total of 3 sheets, including this cover sheet.
- ☐ This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).

These annexes consist of a total of \_\_\_\_\_ sheets.

3. This report contains indications relating to the following items:

- I ☒ Basis of the report
- II ☐ Priority
- III ☐ Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- IV ☐ Lack of unity of invention
- V ☒ Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- VI ☐ Certain documents cited
- VII ☐ Certain defects in the international application
- VIII ☐ Certain observations on the international application

RECEIVED

APR 26 2002

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|  |  |
|--|--|
| Date of submission of the demand<br>20.11.2001   | Date of completion of this report<br>07.03.2002                      |
| Name and mailing address of the IPEA/SE<br>Patent- och registreringsverket<br>Box 5055<br>S-102 42 STOCKHOLM<br>Facsimile No. 08-667 72 88 | Authorized officer<br>Ola Engstrand/MP<br>Telephone No. 08-782 25 00 |

# INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/SE01/00894

## I. Basis of the report

### 1. With regard to the elements of the international application:\*

- ☒ the international application as originally filed
- ☐ the description:  
 pages \_\_\_\_\_, as originally filed  
 pages \_\_\_\_\_, filed with the demand  
 pages \_\_\_\_\_, filed with the letter of \_\_\_\_\_
- ☐ the claims:  
 pages \_\_\_\_\_, as originally filed  
 pages \_\_\_\_\_, as amended (together with any statement) under article 19  
 pages \_\_\_\_\_, filed with the demand  
 pages \_\_\_\_\_, filed with the letter of \_\_\_\_\_
- ☐ the drawings:  
 pages \_\_\_\_\_, as originally filed  
 pages \_\_\_\_\_, filed with the demand  
 pages \_\_\_\_\_, filed with the letter of \_\_\_\_\_
- ☐ the sequence listing part of the description:  
 pages \_\_\_\_\_, as originally filed  
 pages \_\_\_\_\_, filed with the demand  
 pages \_\_\_\_\_, filed with the letter of \_\_\_\_\_

### 2. With regard to the language, all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item.

These elements were available or furnished to this Authority in the following language English which is:

- ☐ the language of a translation furnished for the purposes of international search (under Rule 23.1(b)).
- ☒ the language of publication of the international application (under Rule 48.3(b)).
- ☐ the language of the translation furnished for the purposes of international preliminary examination (under Rules 55.2 and/or 55.3).

### 3. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing:

- ☐ contained in the international application in written form.
- ☐ filed together with the international application in computer readable form.
- ☐ furnished subsequently to this Authority in written form.
- ☐ furnished subsequently to this Authority in computer readable form.
- ☐ The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.
- ☐ The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.

### 4. ☐ The amendments have resulted in the cancellation of:

- ☐ the description, pages \_\_\_\_\_
- ☐ the claims, Nos. \_\_\_\_\_
- ☐ the drawings, sheet/fig \_\_\_\_\_

### 5. ☐ This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2 (c)).\*\*

\* Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are annexed to this report since they do not contain amendments (Rules 70.16 and 70.17).

\*\* Any replacement sheet containing such amendments must be referred to under item I and annexed to this report.

## INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/SE01/00894

**V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement****1. Statement**

|                               |        |             |     |
|-------------------------------|--------|-------------|-----|
| Novelty (N)                   | Claims | <u>1-23</u> | YES |
|                               | Claims |             | NO  |
| Inventive step (IS)           | Claims | <u>1-23</u> | YES |
|                               | Claims |             | NO  |
| Industrial applicability (IA) | Claims | <u>1-23</u> | YES |
|                               | Claims |             | NO  |

**2. Citations and explanations (Rule 70.7)**

Documents cited in the International Search Report:

D1: SU 1579 620 A1  
D3: DE 19 75 50 28 A1  
D4: US 5729 883 A  
D5: GB 2 077 634 A

The cited documents represent the general state of the art.  
The invention defined in claims 1-23 is not disclosed by any of these documents.

The cited prior art does not give any indication that would lead a person skilled in the art to the claimed Method for Manufacturing of a Plate. Therefore, the claimed invention is not obvious to a person skilled in the art.

Accordingly, the invention defined in claims 1- 23 is novel and is considered to involve an inventive step. The invention is industrially applicable.

**PCT REQUEST**Original (for **SUBMISSION**) - printed on 25.04.2001 12:16:18 PM

|                |  |   |
|----------------|--|---|
| <b>0</b>       | <b>For receiving Office use only</b>   |   |
| <b>0-1</b>     | International Application No.  |   |
| <b>0-2</b>     | International Filing Date  |   |
| <b>0-3</b>     | Name of receiving Office and "PCT International Application"   |   |
| <b>0-4</b>     | <b>Form - PCT/RO/101 PCT Request</b>   |   |
| <b>0-4-1</b>   | Prepared using   | <b>PCT-EASY Version 2.91<br/>(updated 01.01.2001)</b>     |
| <b>0-5</b>     | <b>Petition</b><br>The undersigned requests that the present international application be processed according to the Patent Cooperation Treaty |   |
| <b>0-6</b>     | Receiving Office (specified by the applicant)  | <b>Swedish Patent Office (RO/SE)</b>                      |
| <b>0-7</b>     | Applicant's or agent's file reference  | <b>P1520-100A</b>   |
| <b>I</b>       | <b>Title of invention</b>  | <b>METHOD FOR THE MANUFACTURING OF A PLATE</b>            |
| <b>II</b>      | <b>Applicant</b>   |   |
| <b>II-1</b>    | This person is:  | <b>applicant only</b>                                     |
| <b>II-2</b>    | Applicant for  | <b>all designated States except US</b>                    |
| <b>II-4</b>    | Name   | <b>MORPHIC TECHNOLOGIES AKTIEBOLAG</b>                    |
| <b>II-5</b>    | Address:   | <b>Gammelbackav. 6<br/>S-691 51 KARLSKOGA<br/>Sweden</b>  |
| <b>II-6</b>    | State of nationality   | <b>SE</b>   |
| <b>II-7</b>    | State of residence   | <b>SE</b>   |
| <b>III-1</b>   | <b>Applicant and/or inventor</b>   |   |
| <b>III-1-1</b> | This person is:  | <b>applicant and inventor</b>                             |
| <b>III-1-2</b> | Applicant for  | <b>US only</b>  |
| <b>III-1-4</b> | Name (LAST, First)   | <b>OLSSON, Håkan</b>                                      |
| <b>III-1-5</b> | Address:   | <b>Skogsbärsvägen 4<br/>S-691 45 KARLSKOGA<br/>Sweden</b> |
| <b>III-1-6</b> | State of nationality   | <b>SE</b>   |
| <b>III-1-7</b> | State of residence   | <b>SE</b>   |

## PCT REQUEST

Original (for SUBMISSION) - printed on 25.04.2001 12:16:18 PM

|        |  |   |
|--------|--|---|
| IV-1   | <b>Agent or common representative; or address for correspondence</b><br>The person identified below is hereby/has been appointed to act on behalf of the applicant(s) before the competent International Authorities as: | agent   |
| IV-1-1 | Name (LAST, First)   | HYNELL, Magnus  |
| IV-1-2 | Address:   | Hynell Patenttjänst AB<br>Patron Carls väg 2<br>S-683 40 HAGFORS/UDDEHOLM<br>Sweden   |
| IV-1-3 | Telephone No.  | +46 563 23520   |
| IV-1-4 | Facsimile No.  | +46 563 23696   |
| IV-1-5 | e-mail   | headoffice@hynell.se  |
| IV-2   | Additional agent(s)  | additional agent(s) with same address as first named agent  |
| IV-2-1 | Name(s)  | KYLIN, Peter; BJÖRKMAN, Annika; LUNDAHL, Kjell; WASSÉN, Helena  |
| V      | Designation of States  |   |
| V-1    | Regional Patent<br>(other kinds of protection or treatment, if any, are specified between parentheses after the designation(s) concerned)  | AP: GH GM KE LS MW MZ SD SL SZ TZ UG ZW<br>and any other State which is a Contracting State of the Harare Protocol and of the PCT<br>EA: AM AZ BY KG KZ MD RU TJ TM and any other State which is a Contracting State of the Eurasian Patent Convention and of the PCT<br>EP: AT BE CH&LI CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR and any other State which is a Contracting State of the European Patent Convention and of the PCT<br>OA: BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG and any other State which is a member State of OAPI and a Contracting State of the PCT |
| V-2    | National Patent<br>(other kinds of protection or treatment, if any, are specified between parentheses after the designation(s) concerned)  | AE AG AL AM AT (patent and utility model) AU AZ BA BB BG BR BY BZ CA CH&LI CN CR CU CZ (patent and utility model) DE (patent and utility model) DK (patent and utility model) DM DZ EE (patent and utility model) ES FI (patent and utility model) GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK (patent and utility model) SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW  |
| V-3    | National Patent (States which have become party to the PCT after the issuance of this version of EASY)   | CO Colombia   |

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|--------------|---|---------------------------------------|
| <b>V-5</b>   | <b>Precautionary Designation Statement</b><br>In addition to the designations made under items V-1, V-2 and V-3, the applicant also makes under Rule 4.9(b) all designations which would be permitted under the PCT except any designation(s) of the State(s) indicated under item V-6 below. The applicant declares that those additional designations are subject to confirmation and that any designation which is not confirmed before the expiration of 15 months from the priority date is to be regarded as withdrawn by the applicant at the expiration of that time limit. |                                       |
| <b>V-6</b>   | <b>Exclusion(s) from precautionary designations</b>   | <b>NONE</b>                           |
| <b>VI-1</b>  | <b>Priority claim of earlier national application</b>   |                                       |
| VI-1-1       | Filing date   | 28 April 2000 (28.04.2000)            |
| VI-1-2       | Number  | 0001559-4                             |
| VI-1-3       | Country   | SE                                    |
| <b>VI-2</b>  | <b>Priority claim of earlier national application</b>   |                                       |
| VI-2-1       | Filing date   | 11 December 2000 (11.12.2000)         |
| VI-2-2       | Number  | 0004554-2                             |
| VI-2-3       | Country   | SE                                    |
| <b>VI-3</b>  | <b>Priority claim of earlier national application</b>   |                                       |
| VI-3-1       | Filing date   | 12 January 2001 (12.01.2001)          |
| VI-3-2       | Number  | 0100106-4                             |
| VI-3-3       | Country   | SE                                    |
| <b>VI-4</b>  | <b>Priority document request</b><br>The receiving Office is requested to prepare and transmit to the International Bureau a certified copy of the earlier application(s) identified above as item(s):   | VI-1, VI-2, VI-3                      |
| <b>VII-1</b> | <b>International Searching Authority Chosen</b>   | <b>Swedish Patent Office (ISA/SE)</b> |
| <b>VII-2</b> | <b>Request to use results of earlier search; reference to that search</b>   |                                       |
| VII-2-1      | Date  | 28 April 2000 (28.04.2000)            |
| VII-2-2      | Number  | 0001559-4                             |
| VII-2-3      | Country (or regional Office)  | SE                                    |
| <b>VII-3</b> | <b>Request to use results of earlier search; reference to that search</b>   |                                       |
| VII-3-1      | Date  | 11 December 2000 (11.12.2000)         |
| VII-3-2      | Number  | 0004554-2                             |
| VII-3-3      | Country (or regional Office)  | SE                                    |
| <b>VII-4</b> | <b>Request to use results of earlier search; reference to that search</b>   |                                       |
| VII-4-1      | Date  | 12 January 2001 (12.01.2001)          |
| VII-4-2      | Number  | 0100106-4                             |
| VII-4-3      | Country (or regional Office)  | SE                                    |




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|         |  |  |                             |
|---------|--|--|-----------------------------|
| VIII    | Check list   | number of sheets   | electronic file(s) attached |
| VIII-1  | Request  | 4  | -                           |
| VIII-2  | Description  | 10   | -                           |
| VIII-3  | Claims   | 4  | -                           |
| VIII-4  | Abstract   | 1  | EZABST00.TXT                |
| VIII-5  | Drawings   | 5  | -                           |
| VIII-7  | TOTAL  | 24   |                             |
|         | Accompanying items   | paper document(s) attached   | electronic file(s) attached |
| VIII-8  | Fee calculation sheet                                      | ✓  | -                           |
| VIII-9  | Separate signed power of attorney                          | ✓  | -                           |
| VIII-16 | PCT-EASY diskette  | -  | diskette                    |
| VIII-18 | Figure of the drawings which should accompany the abstract | 6  |                             |
| VIII-19 | Language of filing of the international application        | Swedish  |                             |
| IX-1    | Signature of applicant or agent                            |  |                             |
| IX-1-1  | Name (LAST, First)   | HYNELL, Magnus   |                             |

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|        |   |        |
|--------|---|--------|
| 10-1   | Date of actual receipt of the purported international application   |        |
| 10-2   | Drawings:   |        |
| 10-2-1 | Received  |        |
| 10-2-2 | Not received  |        |
| 10-3   | Corrected date of actual receipt due to later but timely received papers or drawings completing the purported international application |        |
| 10-4   | Date of timely receipt of the required corrections under PCT Article 11(2)  |        |
| 10-5   | International Searching Authority   | ISA/SE |
| 10-6   | Transmittal of search copy delayed until search fee is paid   |        |

## FOR INTERNATIONAL BUREAU USE ONLY

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| 11-1 | Date of receipt of the record copy by the International Bureau |  |
|------|--|--|